

Translations & Solving for the Unknown

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Date_____ Period_____

Define your variable, write the equation, and solve

- 1) Last week Kayla ran 21 miles more than Julia. Kayla ran 26 miles. How many miles did Julia run?
- 2) Last week Adam ran 34 miles more than Kim. Adam ran 47 miles. How many miles did Kim run?
- 3) James paid \$9 for a sandwich. He now has \$38. With how much money did he start?
- 4) Sarawong wants to buy a pen for \$2.87. He gives the cashier \$3. What is his change?
- 5) How old is Stefan if he will be 18 years old in ten years?
- 6) Krystal paid \$4 for a pizza. She now has \$11. With how much money did she start?

- 7) After paying \$5 for a sandwich, Paul has \$24. With how much money did he start?
- 8) After paying \$5.69 for a sandwich, Jessica has \$7.01. How much money did she have before buying the sandwich?
- 9) Last week Molly ran 14 miles less than Mike. Molly ran 12 miles. How many miles did Mike run?
- 10) Amanda was 36 years old eleven years ago. How old is she now?
- 11) A colony of ants carried away 15 of your muffins. That was $\frac{3}{10}$ of all of them! How many are left?
- 12) If the weight of a package is multiplied by $\frac{3}{8}$ the result is 12 pounds. Find the weight of the package.

13) Eduardo bought seven colored markers for a total of \$40.11. How much did each marker cost?

14) Your uncle gave you \$23.16 with which to buy a present. This covered $\frac{4}{5}$ of the cost. How much did the present cost?

15) Rob won 60 pieces of gum playing hoops. After giving some away he only has 47 remaining. How many did he give away?

16) A hungry elf ate 22 of your muffins. That was $\frac{2}{3}$ of all of them! How many are left?

17) Ted wanted to make note cards by cutting pieces of paper in half. Before starting he got four more pieces to use. When he was done he had 18 half-pieces of paper. With how many pieces did he start?

18) Elisa sold half of her comic books and then bought twenty more. She now has 50. With how many did she begin?

- 19) Kayla had some paper with which to make note cards. On her way to her room she found seven more pieces to use. In her room she cut each piece of paper in half. When she was done she had 34 half-pieces of paper. With how many sheets of paper did she start?
- 20) Totsakan spent half of his weekly allowance playing mini-golf. To earn more money his parents let him clean the windows in the house for \$10. What is his weekly allowance if he ended with \$20?
- 21) On Tuesday Paul bought six boxes. On Wednesday half of all the boxes that he had were destroyed. On Thursday there were only 21 left. How many did he have on Monday?
- 22) Shayna's Bikes rents bikes for \$13 plus \$8 per hour. Abhasra paid \$37 to rent a bike. For how many hours did she rent the bike?
- 23) Emily bought six hats. A week later half of all her hats were destroyed in a fire. There are now only 15 hats left. With how many did she start?
- 24) Jack had some candy to give to his five children. He first took two pieces for himself and then evenly divided the rest among his children. Each child received four pieces. With how many pieces did he start?